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National Highway Traffic Safety Administration

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TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH GROUP

Calspan SRL Corporation Buffalo, New York 14225

CALSPAN REMOTE AIR BAG/CHILD FATALITY INVESTIGATION
CALSPAN CASE NO. 96-24
VEHICLE: 1997 SATURN SL2
LOCATION: GEORGIA
CRASH DATE: , 1996

Contract No. DTNH22-94-D-07058

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

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16. Abstract This remote investigation focus air bags. The vehicle was involved the 18 month old female child of passenger side air bag contacted of the chin. In addition, she sue the child was mechanically sup the mother consented to a teleprocedural records. Due to the determination of the determinat	red in a moderate front-to-rear or occupant was positioned on the last I the child occupant in the facial stained closed head injuries and the crash scene and transported the ported for approximately 23 how whone interview, however, she reath at the hospital, the county of	ash with a 1994 Nissan Sap of his mother in the rigarea which resulted in a bled out of the nose and the driver, child, and the ars. She expired due to fused to sign a medical proner did not require a	sentra which deployed the ght front of the vehicle. The brasions of the right lowed mouth at the scene of the right front passenger (most the closed head injury. The release form to authorize the autopsy. In addition to	Saturn's air bag system. he deploying mid mount or face and the underside he crash. ther) to a hospital where the release of the child's the occupant interview,						
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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

CALSPAN REMOTE AIR BAG/CHILD FATALITY INVESTIGATION CALSPAN CASE NO. 96-24

VEHICLE: 1997 SATURN SL2 LOCATION: GEORGIA CRASH DATE: 1996

SUMMARY

This remote investigation focused on an 18 month old female passenger who was positioned on her mother's lap in the right front of a 1997 Saturn SL2, 4 door sedan. The Saturn was equipped with supplemental driver and passenger side air bags which deployed as a result of a moderate front-to-rear crash sequence with a 1994 Nissan Sentra. The child was contacted by the deploying air bag which produced facial abrasions to the right face and underside of the chin, a closed head injury, and chest trauma. The child occupant was transported by a private vehicle from the scene of the crash to a local hospital where he expired on the day following the crash.

The crash occurred in a mid block area between two urban four-leg intersections. In the vicinity of the crash scene, the roadway consisted of three westbound travel lanes (inclusive of a designated left turn lane) and two eastbound lanes. Barrier curbs bordered both road edges. Viewing conditions were police reported as dark, but lighted with overcast skies. The dry asphalt road surface was straight and level with a posted speed limit of 48 km/h (30 mph).

The Saturn was identified on the police report as a 1996 model year, however, the vehicle identification number identified the model year as a 1997. The vehicle was a four-door sedan and was equipped with front bucket seats with reclining seat backs, a center console and a console mounted transmission selector lever. The four outboard seated positions were equipped with manual 3-point lap and shoulder belt systems. The front seat belt systems had adjustable upper anchorages (D-rings), however, the adjusted positions of the D-rings were unknown. A center rear lap belt (fixed length adjustable) was available. In addition to the belt systems, the Saturn was equipped with supplemental driver and passenger side air bags which deployed during this front-to-rear crash sequence.

Although the entire air bag modules were not visible in the attached on-scene police photographs, previous investigations have indicated that the Saturn was equipped with a driver air bag that expanded from an I-configuration module assembly from within a four-spoke steering wheel. The passenger side air bag was incorporated within the mid right instrument panel and deployed from a single top hinged module cover flap. The passenger side Saturn air bag is typically tethered with a single tether panel that is affixed to the mid bag area. The bag vented through a porous fabric with no direct vent ports on the bag surface.

Prior to the crash, the child's 19 year old mother had transported her by transit bus to a medical center for a scheduled doctor's appointment. The mother reported her height at 170.2 cm (67.0") and weight at 54.4 kg (120.0 lbs.) Following the visit, she had contacted the child's father to arrange for return transportation to her residence. He arrived at the center in the 1997 Saturn, however, he did not retrieve the child restraint from the residence, therefore the child restraint was not available to the child for the return trip. The mother stated that the child was always properly secured in a forward facing child restraint and positioned in the rear seat when transported in the vehicle. For this return trip, the mother stated that she elected to hold the child on her lap to secure the child in the vehicle. She noted that she was properly restrained by the manual 3-point lap and shoulder belt system with the child positioned on her right thigh. The mother further noted that the belt webbing was not extended around the child. Based on the remote investigative effort (telephone follow-up only), belt usage could not be verified. In addition, the investigating police officer noted on his report that the adult right front occupant was not restrained. The mother estimated the height of the child at 91.4 cm (36.0") and weight at 10 kg (22 lbs.). The attached on-scene police photographs (refer to Photograph No. 2) indicate that the passenger seat was adjusted to a mid track position. The mother stated that she was aware of the Saturn's passenger side air bag and the warning labels affixed to the vehicle's visors. In addition, she had learned about the risks associated with passenger side air bag deployment against a child on television and newspaper articles, however, she did not think it would "happen" to her daughter.

The driver of the Saturn was a 22 year old male with a height of 190.5 cm (75.0") and weight of 83.3 kg (185.0 lbs.). The right front occupant stated that he was properly restrained by the manual 3-point lap and shoulder belt system, however, the police report listed him as unrestrained. The report did note air bag deployment for both front seat positions.

Following the driver's departure from the medical center, he stopped at a fast-food restaurant then proceeded en route to their destination. He was traveling in a westerly direction on the outboard travel lane of the four lane urban roadway and had stopped at several intersections for a red signal phase. He had traversed a four leg intersection on a green signal phase and approached a line of standing traffic that had backed-up for a red signal phase. The driver failed to detect the standing traffic in sufficient time to safely stop behind the stopped Nissan. He braked in an attempt to avoid impact, however, his vehicle continued forward on the dry asphalt road surface to impact.

The full frontal area of the Saturn impacted the rear of the stopped Nissan in a 12 o'clock/6 o'clock configuration. The front bumper of the Saturn initially engaged against the rear bumper of the Nissan which resulted in minimal bumper displacement. The Saturn's bumper subsequently underrode the rear bumper of the Nissan resulting in moderate damage to the grille and headlamp areas of the Saturn. A CDC of 12-FDEW-1 was derived from the attached on-scene police photographs. The Saturn sustained a moderate velocity change that was estimated from the attached police photographs at 16-19 km/h (10-12 mph). As a result of the crash, the Saturn's supplemental driver and passenger side air bag system deployed.

The rear bumper fascia of the Nissan was abraded and holed from the impact sequence with the Saturn. As the Saturn's bumper fascia underrode the Nissan's bumper, the Nissan's rear mounted muffler was contacted and displaced forward which separated the muffler from the rear exhaust hangers (refer to Photograph Nos. 5 and 6). There was no damage above the level of the Nissan's bumper (CDC 06-BDLW-1). The impact displaced the Nissan forward into the rear of a stopped 1990 Buick Century.

The driver of the Saturn probably responded to the frontal impact by initiating a forward trajectory and loaded the deployed driver's side air bag. Although he did not sustained direct contact injury from the bag, the right front passenger noted that he complained of neck pain that probably resulted from bag loading and the frontal impact force.

The right front passenger was attempting to restrain the 18 month old child by holding the child on her lap. Due to the pre-crash braking force, the child probably moved forward toward the mid mount passenger side air bag module assembly. The frontal collision involved the energy absorbing front bumper system of the Saturn and the headlamp and header panel areas. Minimal structure was involved in the crash, therefore the air bag system probably deployed late in the crash sequence which would have allowed the child passenger to move closer to the passenger side air bag module assembly. The deploying passenger side air bag membrane expanded against the child's right face, underside area of the chin, and the thoracic area which resulted in soft tissue abrasions (AIS-1), a chest trauma, and a closed head injury (AIS-4). Although unconfirmed by medical data, the air bag contact to the underside of the child's chin probably resulted in an extension of the neck and a possible brain stem and/or C-spine injury.

The mother stated that the lower aspect of the air bag contacted the child's face and chest while the upper aspect of the passenger side air bag contacted her chest which resulted in contusions (AIS-1). The mother further noted the deployment sequence displaced the child from her arms to a position on the right front floor where she came to rest within the vehicle. The air bag probably displaced the child into the chest of the mother as she responded to the frontal impact force. The mother sustained contusions (AIS-1) and soreness of the chest, however, she declined medical treatment. In addition to holding the child on her lap, the mother was probably holding some fast-food items which were scattered about the frontal interior surfaces as evidenced in Photograph No. 3.

Following the crash, the mother retrieved the child from the floor of the vehicle and noted that she was bleeding from the nose and mouth and was in an unconscious state. She and the driver waved down a passing motorist who transported the parents and the child to the medical center from which they were returning from. Upon admission, the attending physician stated that the child was critically ill. A right thoracotomy was performed which detected a collapse of the right lung. In addition, a ventriculostomy was performed to relieve brain pressure. The child was diagnosed with brain death and was placed on a respirator. She expired approximately 23 hours following the crash. The mother refused to authorize the release of the child's medical records and no autopsy was performed, therefore specific injury data was unknown.

HUMAN DEMOGRAPHICS/OCCUPANT DATA

Air Bag Vehicle

Driver:

22 year old male

Height:

190.5 cm (75.0")

Weight:

83.3 kg (185 lbs.)

Manual Restraint

Usage:

None

Usage Source:

Police report

Type of Medical

Treatment:

None

DRIVER INJURIES

Injury	Injury Severity (AIS-90)	Injury Mechanism
Soreness of the neck	Not a codeable injury	Air bag/impact force

PASSENGER DATA

Right Front

Passenger:

19 year old female

Height:

170.2 cm (67.0")

Weight:

54.0 kg (120.0 lbs.)

Manual Restraint

Usage:

None

Usage Source:

Police report

Type of Medical

Treatment:

None

RIGHT FRONT PASSENGER INJURIES

Injury	Injury Severity (AIS-90)	Injury Mechanism
Chest contusions	Minor (490402.19)	Interaction with child and passenger side air bag

HUMAN DEMOGRAPHICS/OCCUPANT DATA (CONT'D.)

CHILD PASSENGER

Position: Seated on the lap of the right front passenger

Age: 18 months Sex: Female

Restraint

Usage: None

Usage Source: Police report, interview

Mode of Transport

From Scene: Private vehicle to a local pediatric medical center

Type of Medical

Treatment: Admitted to a pediatric medical center where she expired

approximately 23 hours following the crash

CHILD PASSENGER INJURIES

Injury	Injury Severity (AIS-90)	Injury Mechanism
Closed head injury with prolonged loss of consciousness (23 hours)	Severe (160210.40)	Deploying passenger side air bag
Abrasion of the right face which extended from the right ear to the chin	Minor (290202.11)	Deploying passenger side air bag
Abrasion to the underside of the chin	Minor (290202.18)	Deploying passenger side air bag
Chest trauma with a collapse of the right lung	Not a codeable injury under AIS-90	Deploying passenger side air bag

ATTACHMENT A

On-Scene Police Photographs



1. Frontal damage to the 1995 Saturn SL2 Sedan.



2. Deployed driver's side air bag and front seat track positions.



3. Exterior view of the interior and apparent food debris on interior surface of windshield and upper instrument panel.



4. Rear seat view of the Saturn.



5. Rear view of the struck 1994 Nissan Sentra.

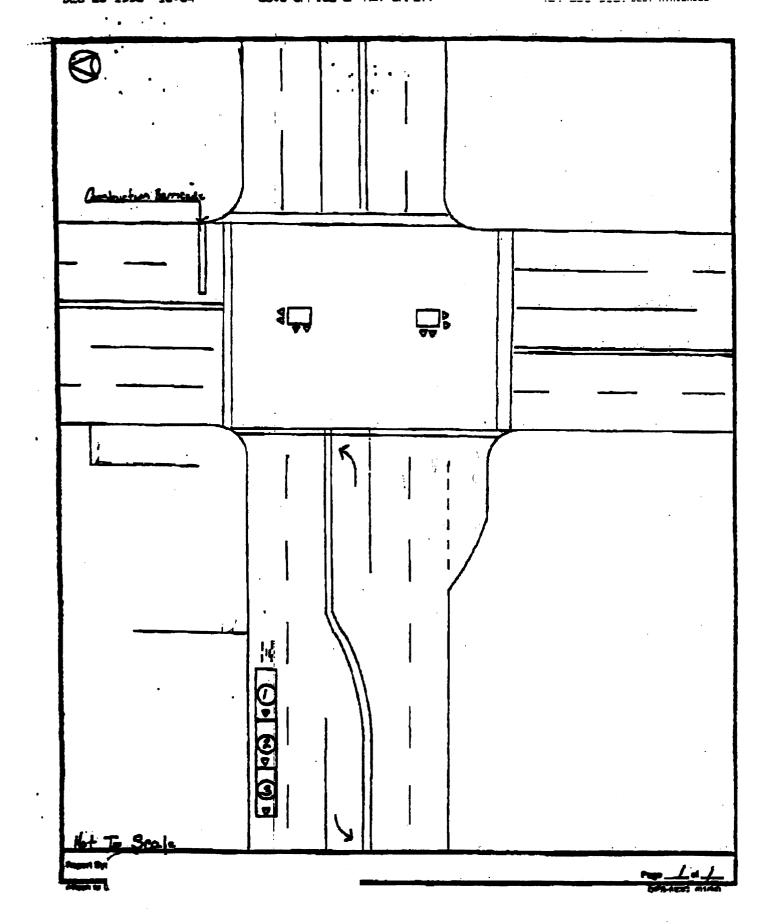


6. Close-up view of the rear bumper fascia and disengaged muffler assembly.

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ALCOHOL AND/OR DRUG TEST GIVEN 1 - Yes 2 - No 3 - Refused TYPE TEST 1-Blood 2-Breath 3-Urine 4-Other DRIVER CONDITION 1 Not Drinking 6 U.I. Alcohol & Drugs 2 Not Known II U.I. Drugs 3 Drinking, 7 Physical Impairment 4 U.I. Alcohol 8 Apparently Fell Asleep DIRECTION OF TRAVEL	PEDESTRIAN MANEUVER 1 Crossing, 8 Other Working in Road Not At Crosswalk 7 Playing in Roadway 2 Crossing At Crosswalk 8 Standing in Roadway 3 Walking With Traffic 9 Off Roadway 4 Walking Against Traffic 10 Other 5 Pushing Or Working On Vehicle FIRST HARMFUL EVENT/MOST HARMFUL EVENT NON-COLLISION 1 Overturn 4 Jackknife	2 D.U.I. 3 Following Too Close 4 Failed To Yield 5 Exceeding Speed Limit 6 Disregard Stop Sign/Signal 7 Wrong Side Of Road 8 Weather Conditions 9 Improper Passing 10 Driver Loat Control	VEHICLE TYPE 1 Passenger Car 2 Pickup Truck 14 Truck Towing House 3 Truck Tractor (Bobtail) 4 Tractor/Trailer 5 Tractor WTwin Trailers 6 Logging Truck 7 Logging Truck 7 Logging Truck 8 Single Unit Truck 9 Panel Truck 18 Moped 19 Padelcycle, Bicycle 10 Van 11 Millis Research
1-North 2-South 3-East 4-West VISION OBSCURED BY 1 Not Obscured 5 Trees, Bushes 2 Headlights 6 Rain, Snow, Ice 3 Sunlight 7 Other VEHICLE CONDITION 1 No Known Detects 5 Steering Failure	2 Fire/Explosion 3 Other Non-Collision 3 Immersion 5 Other Non-Collision 1 Immersion 5 Other Non-Collision 5 Other Non-Collision 1 Immersion 1 1 Motor Vehicle in Motion 1 1 Other Roadway 9 Animal 1 Other Roadway 1 1 Other Non-Collision WITH FIXED OBJECT	11 Changed Lanes Improperly 12 Object Or Animal 13 Improper Turn 14 Parked Improperly 15 Mechanical Or Vehicle Fallure 16 Surface Defects 17 Misjudged Clearance 18 Improper Backing 19 No Signal/Improper Signal 20 Driver Condition	11 Utility Passenger Veh. 12 Vehicle With Trailer 13 Bus TRAFFIC CONTROL 1 No Control Present 2 Traffic Signal 3 RR Signal/Sign 4 Warning Sign 1 All Terrain Vehicle 22 Other 2 Tarfir Signal 5 Stop Or Yield Sign 6 No Passing Zone 7 Lanes 8 Other
2 Tire Falture 6 Slick Tires 3 Brake Falture 7 Other 4 Improper Lights VENICLE MANEUVER 1 Turning Left 9 Passing 2 Turning Right 10 Negotiating A	15 impact Attenuator 18 Bridge Pier/Abutment 17 Bridge Parapet End 18 Bridge Rail 19 Guardrail Face 29 Diteb	21 Driverless Vehicle 22 Too Fast For Conditions 23 Improper Passing Of School Bus 24 Disregard Police Officer 25 Distracted 26 Other VEMICLE CLASS	CARGO BODY TYPE 1 Van (Encl. Box) 4 Dump 2 Auto Carner 5 Garbage/Refuse 8 Concrete Mixer 3 Bus 6 Flatbed 9 Other VEHICLE CONFIGURATION 1 Bus (Seating For More Than 15 Passengers)
3 Making U-turn 4 Stopped 11 Entering/Leaving 5 Straight Parking 6 Changing Lanes 12 Entering/Leaving 7 Backing Driveway 8 Parked	20 Guerdrail End 21 Median Barrier 22 Highway Traffic Sign Post 23 Overhead Sign Support 30 Charles Sign Support 31 Fence 32 Mailbox 33 Tree 34 Other Fixed Object	1 Privately Owned 2 Police 3 Fire 4 School 5 Other Govt. Cowned 6 Military 7 Commercial Veh. (For Acc. Reporting Purposes Only) 8 Other	2 Single Unit Truck: 2 Axies 3 Single Unit Truck: 3 Or More Axies 4 Truck/Trailer 5 Truck Tractor (Bobtail) 6 Tractor/Trailer 7 Tractor With Twin Trailers 8 Unknown Heavy Truck (Cannot Classify)

